

Appendix B

```
import java.awt.*;
5 import java.awt.event.*;
import javax.swing.*;

public class TestApplet extends JApplet
{
10     private String image;
    private double percentOfWidth;
    private double percentOfHeight;
    public void init()
    {
15         super.init();

        percentOfWidth = 0.0;
        percentOfHeight = 0.0;

20         image = getParameter("image");

        String param = getParameter("percentOfWidth");

        if (param != null)
25         {
            percentOfWidth =
Double.parseDouble(param);
        }

30         param = getParameter("percentOfHeight");

        if (param != null)
        {
            percentOfHeight =
35 Double.parseDouble(param);
        }

        Container contentPane = getContentPane();
        contentPane.add(new TestPanel(image,
40 percentOfWidth, percentOfHeight));
    }
}

45 import java.awt.*;
import java.awt.event.*;
import javax.swing.*;

50 class TestPanel extends JPanel
{
```

```

        private String imageName;
        private double percentOfWidth;
        private double percentOfHeight;

5       private Image image;
        TestPanel(String imageName, double percentOfWidth,
double percentOfHeight)
        {
            this.imageName = imageName;
10         this.percentOfWidth = percentOfWidth;
            this.percentOfHeight = percentOfHeight;

            image =
Toolkit.getDefaultToolkit().getImage(imageName);
15
            MediaTracker tracker = new MediaTracker(this);
            tracker.addImage(image, 0);

            try
20         {
                tracker.waitForID(0);
            }
            catch (InterruptedException e)
            {
25         }
        }
        public void paintComponent(Graphics g)
        {
            super.paintComponent(g);
30
            Dimension container = getSize();
            double newWidth;
            double newHeight;

35         if (percentOfWidth != 0.0)
            {
                // constant percentage of width
                newWidth = container.width *
percentOfWidth / 100.0;
40                 newHeight = newWidth *
                    ((double) image.getHeight(this)
/ (double) image.getWidth(this));
            }
            else
45         {
                // constant percentage of height
                newHeight = container.height *
percentOfHeight / 100.0;
                newWidth = newHeight *
50                 ((double) image.getWidth(this)
/ (double) image.getHeight(this));
            }
        }
    }

```

}

Graphics2D g2 = (Graphics2D) g;

5 g2.setRenderingHint(RenderingHints.KEY_ANTIALIASING,
RenderingHints.VALUE_ANTIALIAS_ON);

 g2.setRenderingHint(RenderingHints.KEY_RENDERING,
RenderingHints.VALUE_RENDER_QUALITY);

10 g2.drawImage(image, 0, 0, (int) newWidth, (int)
newHeight, null);
 }
 }
15

<!doctype html public "-//w3c//dtd html 4.0 transitional//en">
<html>
20 <head>
 <meta name="GENERATOR" content="Mozilla/4.61 [en] (WinNT; I
[Netscape])">
 <title>TestApplet2</title>
 </head>
25 <body>
 <object classid="clsid:8AD9C840-044E-11D1-B3E9-00805F499D93"
 width="100%" height="100%" align="middle"
 codebase="http://<object classid="clsid:8AD9C840-044E-11D1-B3E9-
00805F499D93"
30 width="100%"<param NAME="code" VALUE="TestApplet.class"><param
NAME="codebase" VALUE="classes/"><param NAME="type"
VALUE="application/x-java-applet;version=1.2.2"><param NAME="image"
value="d:/patent/beans.jpg"><param NAME="percentOfWidth"
value="50.0"><param NAME="scriptable" VALUE="true">No
35 JDK 1.2 support for APPLET!!</object>
 </body>
 </html>